Inventor: YUMIKI et al.
Docket No.: 10873.1631USWO
Title: COLLAPSIBLE LENS BARREL AND OPTICAL INSTRUMENT USING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
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10.528977

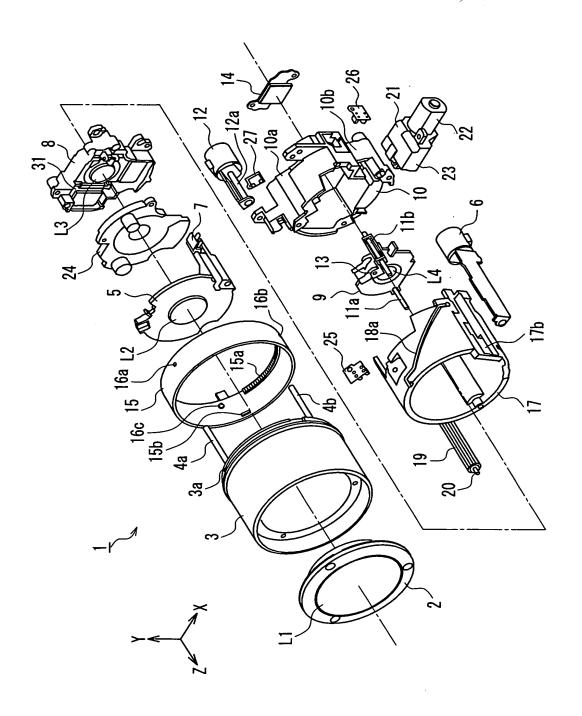


FIG. 1

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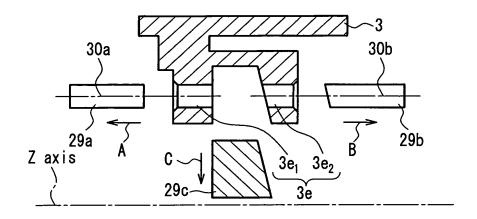


FIG. 2A

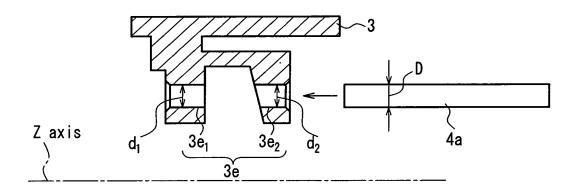


FIG. 2B

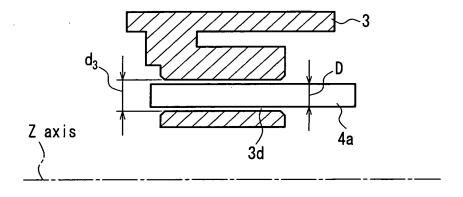


FIG. 2C

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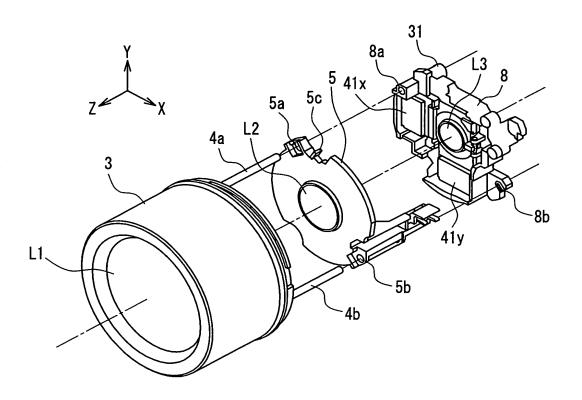
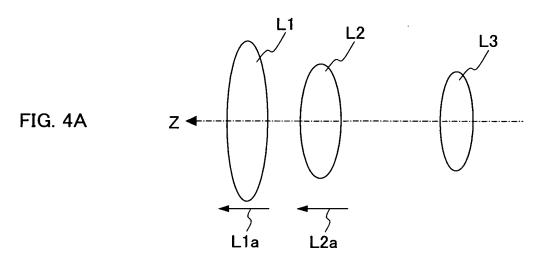
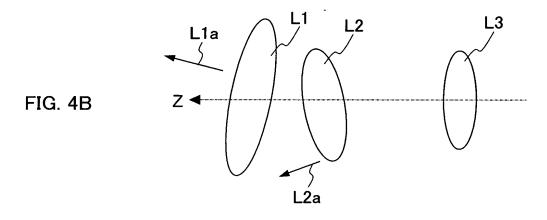


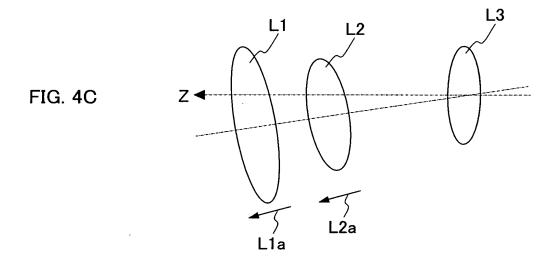
FIG. 3

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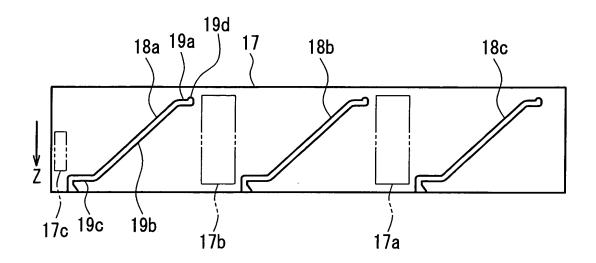


FIG. 5

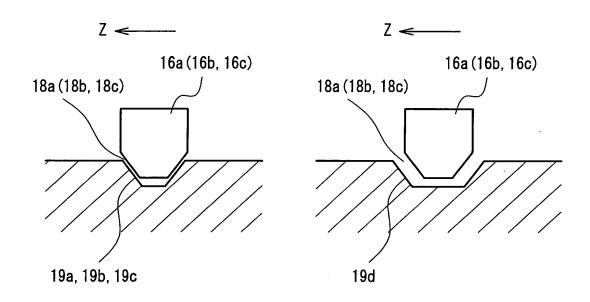


FIG. 6A

FIG. 6B

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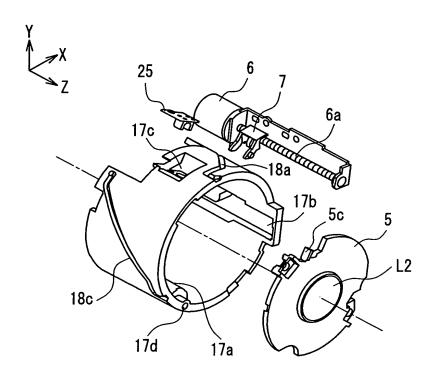


FIG. 7

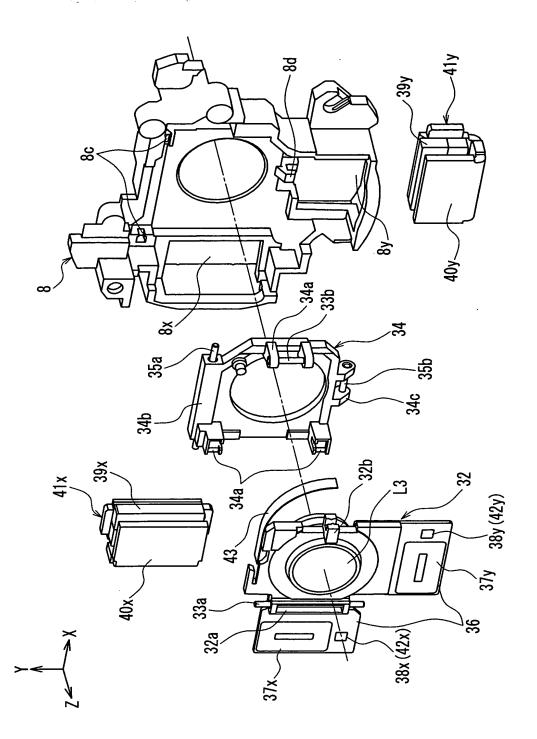


FIG. 8

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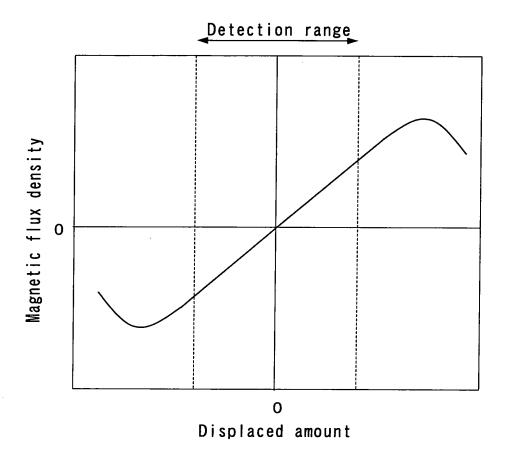


FIG. 9

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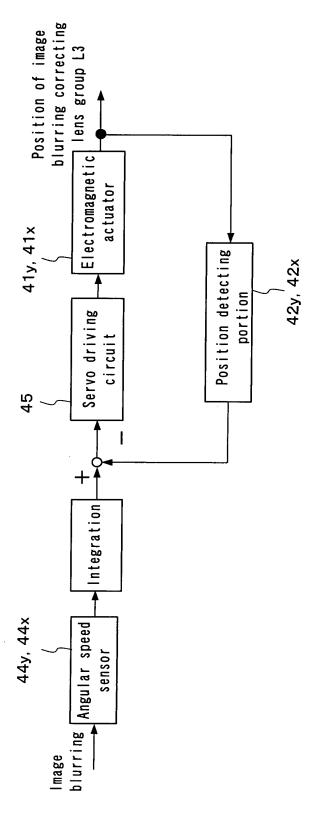


FIG. 10

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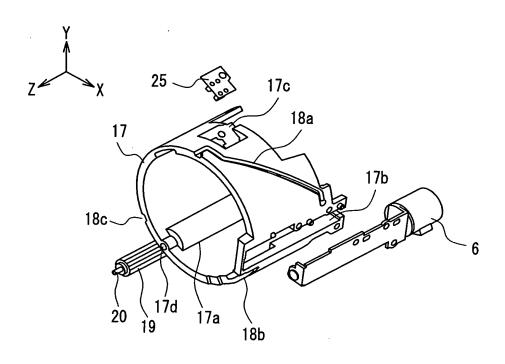


FIG. 11

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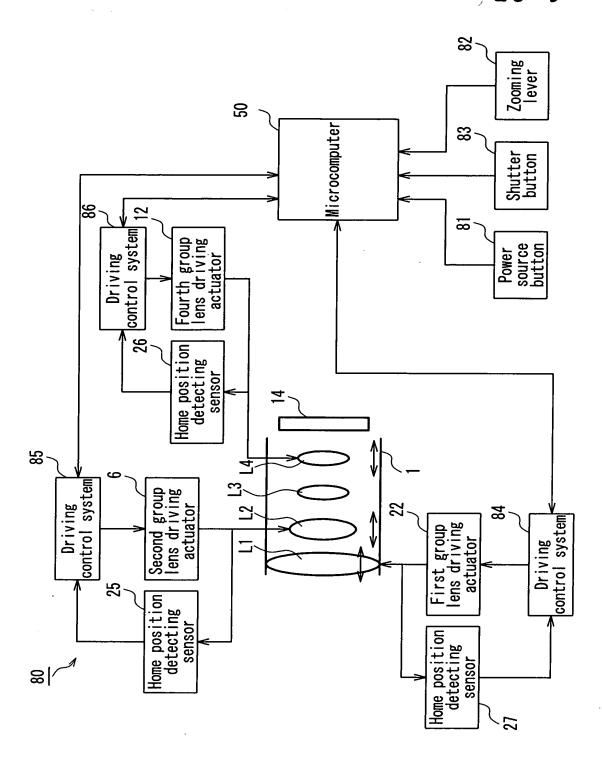


FIG. 12

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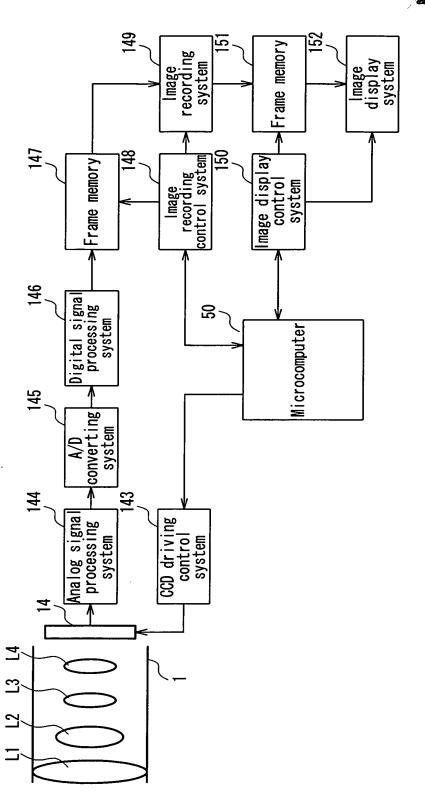


FIG. 13

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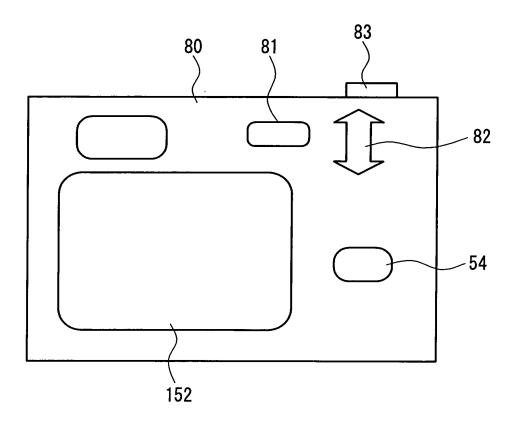


FIG. 14

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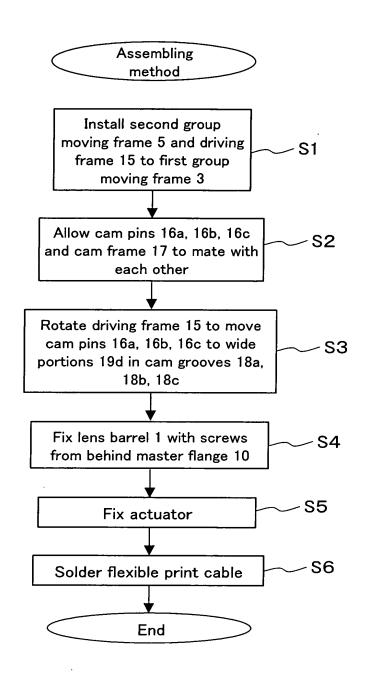


FIG. 15

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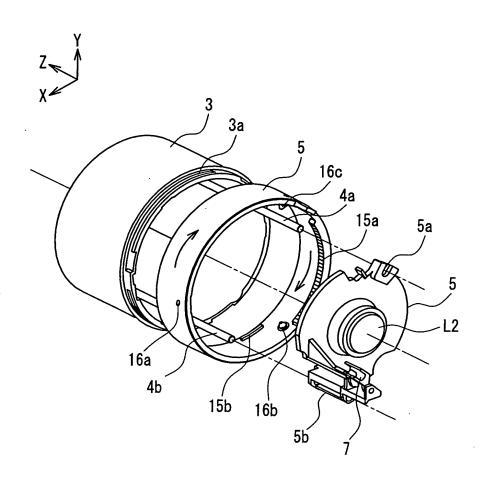


FIG. 16

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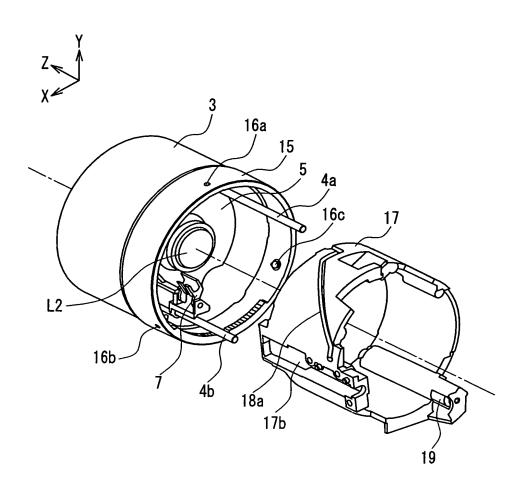


FIG. 17

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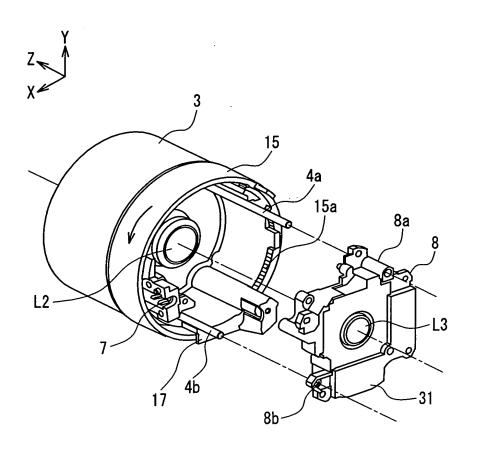


FIG. 18

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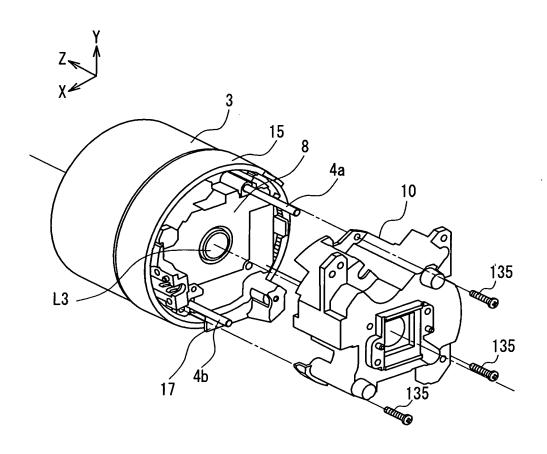


FIG. 19

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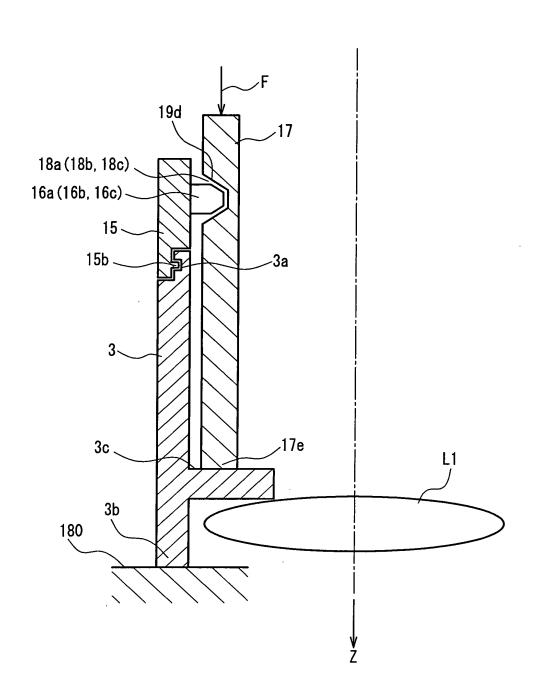


FIG. 20

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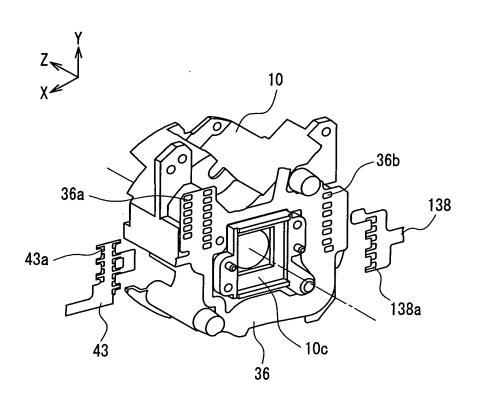


FIG. 21

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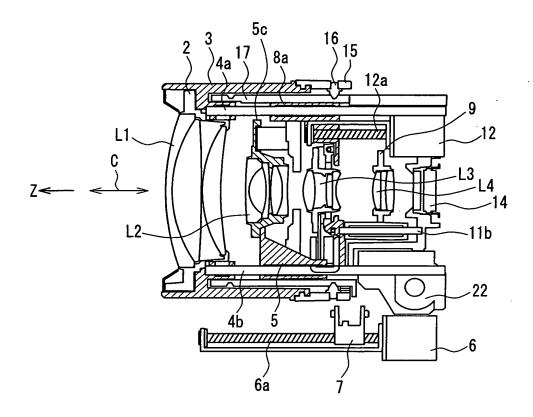


FIG. 22

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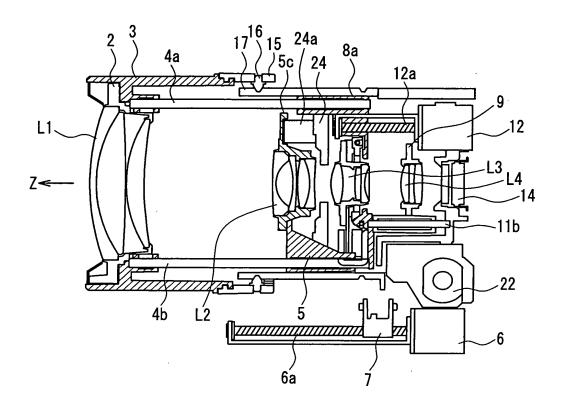


FIG. 23

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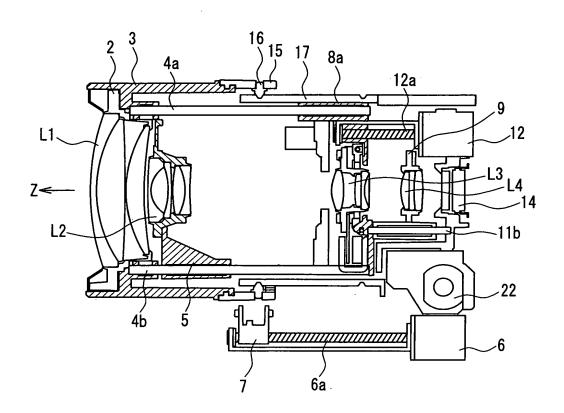


FIG. 24

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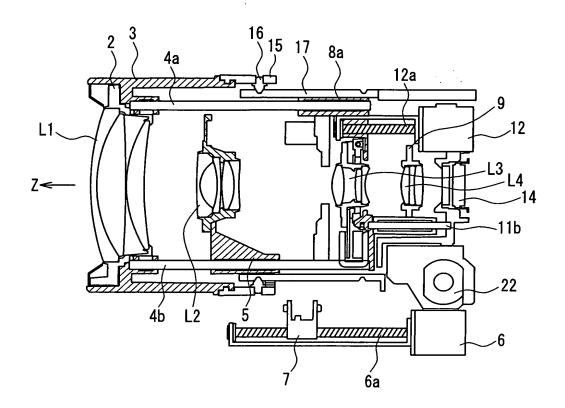


FIG. 25

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FIG. 26A

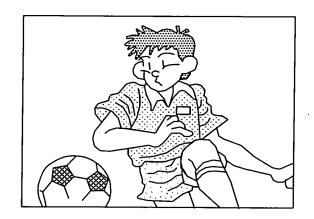


FIG. 26B



FIG. 26C



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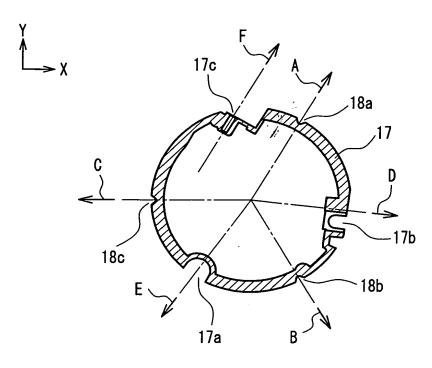


FIG. 27

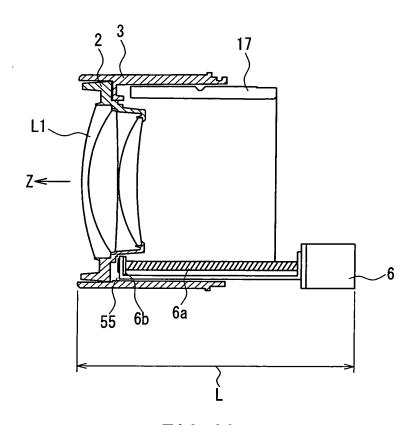


FIG. 28

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84

First group ens driving

Home position detecting sensor

actuator

control system

Driving

FIG. 29

85

control system

25

Driving

8/

group

Second

Home position detecting sensor

lens driving

actuator

2

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FIG. 30

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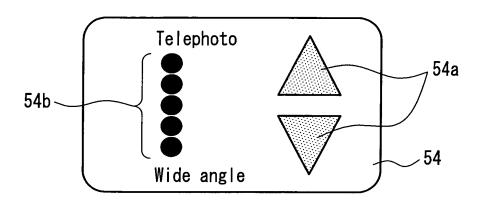


FIG. 31

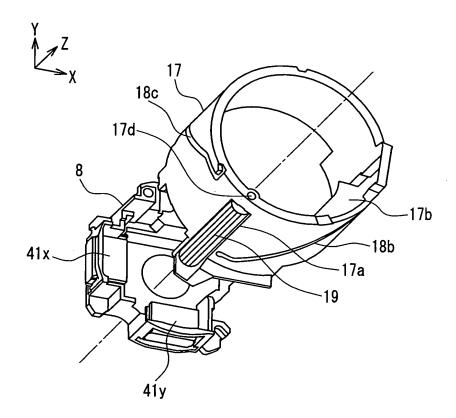


FIG. 32

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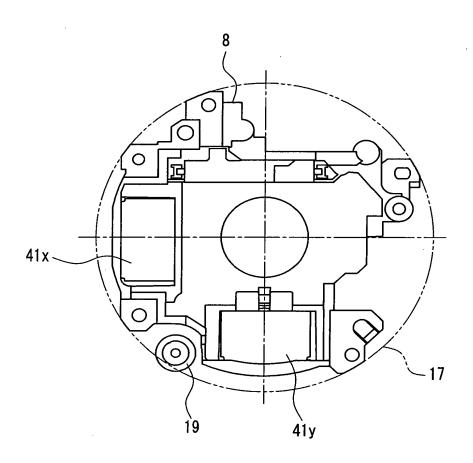


FIG. 33

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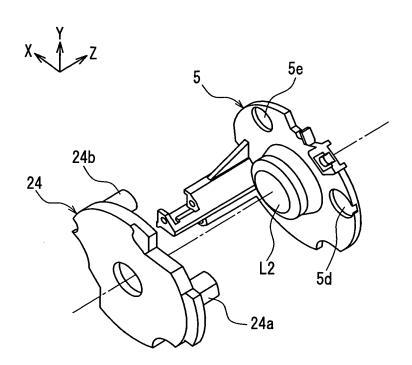


FIG. 34

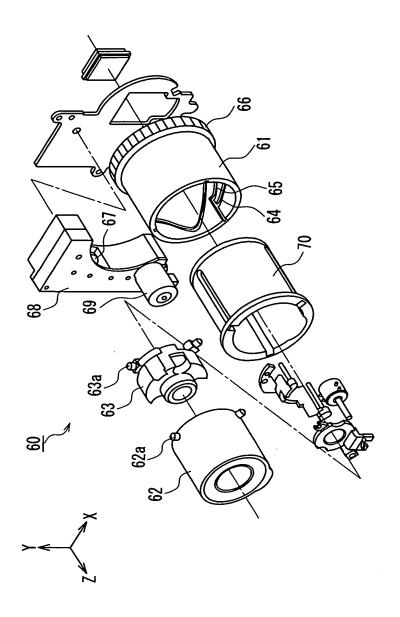


FIG. 35

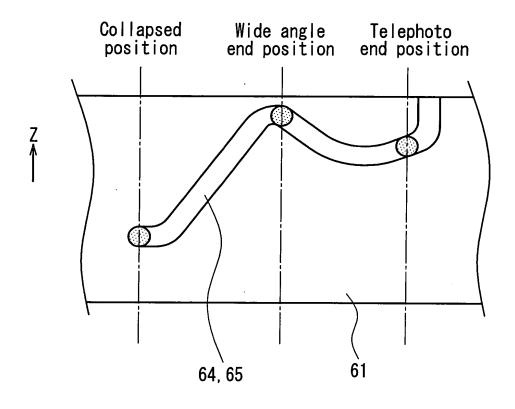


FIG. 36